

FCC CLASS B COMPLIANCE REPORT (DoC)

for

Electromagnetic Emissions

of

LCD Monitor

Trade Name : COMPAL; AG neovo

Model Number : GM678; F-417

Serial Number : N/A

Report Number : 030355-D

Date : April 29, 2003

Prepared for :

Compal Electronics Inc.
No. 581, Jui Kuang Rd., Neihu,
Taipei, (114) Taiwan, R.O.C.

Prepared by :



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1 VERIFICATION OF COMPLIANCE

Equipment Under Test: LCD Monitor
Trade Name: COMPAL; AG neovo
Model Number: GM678; F-417
Serial Number: N/A
Applicant: **Compal Electronics Inc.**
No. 581, Jui Kuang Rd., Neihsu, Taipei, (114) Taiwan, R.O.C.
Manufacturer: **1.) Compal Electronics Inc.**
No. 8, Nan-Tung Rd., Pin-Cheng City, Tao-Yuan Hsien, Taiwan, R.O.C.
2.) Compal Electronics (China) Co., Ltd.
No. 988, Tung Fen East Rd., Economic & Technical Development Zone
Kunshan, Jiangsun, P.R. China
Type of Test: FCC Class B (DoC)
Measurement Procedure: ANSI C63.4: 2001
File Number: 030355-D
Date of Test: April 24 ~ 25, 2003
Deviation: None
Condition of Test Sample: Normal
Final Result: Pass
Worst Data: See below

| Test Item | Freq. (MHz) | Measured Data | Margin (M _μ C) | Remark |
|--------------------|-------------|---------------|---------------------------|--------|
| Radiated Emission | 179.76 | 27.7 (dB/m) | -2.3 dB (± 3.3498 dB) | |
| Conducted Emission | 0.150 | 41.5 (dB) | -24.5 dB (± 2.8216 dB) | |

- The negative sign in Margin cell means under the specific limit.
- This test result traceable to national or international standards.

The above equipment was tested by C&C Laboratory, Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, Subpart B and the measurement procedure according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

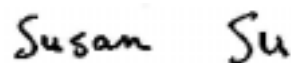
The test results of this report relate only to the tested sample identified in this report.

Approved by:



Jonson Lee / EMC Director

Reviewed by:



Susan Su / Section Manager

2 SYSTEM DESCRIPTION

EUT Test Program:

1. EMI test program was loaded and executed in Windows 98 mode.
2. Data was sent to EUT filling the screen with upper case of “H” patterns.
3. Test program sequentially exercised printer and modem, then sent “H” patterns to them individually.
4. Repeat 2 to 3. Test program is self-repeating throughout the test.

3 PRODUCT INFORMATION

Housing Type: Plastic

EUT Power Rating: 100~240VAC, 50 / 60Hz

AC power during Test: 120VAC/ 60Hz

AC Power Cord Type: Unshielded, 1.8m (Detachable)

OSC/Clock Frequencies: 14.318MHz

LCD Panel Manufacturer: Hyundai **Model:** HT17E12-200

Power Board Manufacturer: COMPAL **Model:** VP-719

Main Board Manufacturer: COMPAL **Model:** VL-720

Key Board Manufacturer: COMPAL **Model:** VK-718

VGA Cable Type: Shielded, 1.8m (Non-detachable) with two cores

I/O Port of EUT

| I/O Port Type | Q'TY | Tested with |
|--------------------------|------|-------------|
| 1). Video Out Port (VGA) | 1 | 1 |

Note: The differences between of the two model numbers (list on this report) are identical, just for marketing purpose only.



4 SUPPORT EQUIPMENT

| No. | Equipment | Model # | Serial # | FCC ID | Trade Name | Data Cable | Power Cord |
|-----|---------------|--------------------|----------------|------------|----------------------|----------------|------------------|
| 1. | PC | EVO D300 | 6K1BKF83F18F | FCC DoC | Compaq | N/A | Unshielded, 1.8m |
| 2. | Modem | 2400 | 94-364-176277 | DK467GSM24 | Computer Peripherals | Shielded, 1.8m | Unshielded, 1.8m |
| 3. | Printer | EPSON STYLUS C20SX | DW4E130540 | FCC DoC | EPSON | Shielded, 1.8m | Unshielded, 1.8m |
| 4. | PS/2 Keyboard | SK-2800C | B1C790BCPJCN6L | GYUR79SK | Compaq | Shielded, 1.8m | N/A |
| 5. | PS/2 Mouse | M-CAA43 | LZA11750827 | FCC DoC | Logitech | Shielded, 1.8m | N/A |

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

5 MEASUREMENT PROCEDURE

5.1 PRELIMINARY LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received AC power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipment received power from a second LISN supplying power of 110VAC/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Mode(s):

- 1. 1280 × 1024 Resolution 75Hz**
- 2. 1024 × 768 Resolution 75Hz**
- 3. 800 × 600 Resolution 75Hz**

- 10) After the preliminary scan, we found the following test mode producing the highest emission level.

Mode: 1.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

5.2 FINAL LINE CONDUCTED EMISSION TEST

- 1) EUT and support equipment was set up on the test bench as per step 10 of the preliminary test.
- 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Q.P. mode, then the emission signal was re-checked using an Average detector.
- 3) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

| Freq. MHz | Q.P. Raw dBuV | Average Raw dBuV | Q.P. Limit dBuV | Average Limit dBuV | Q.P. Margin dB | Average Margin dB | Note |
|--------------|---------------------|------------------------|-----------------------|--------------------------|----------------------|-------------------------|------|
| x.xx | 43.95 | --- | 56 | 46 | -12.05 | -2.05 | L 1 |

| | |
|------------|--|
| Freq. | = Emission frequency in MHz |
| Raw dBuV | = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB |
| Limit dBuV | = Limit stated in standard |
| Margin dB | = Reading in reference to limit |
| Note | = Current carrying line of reading |
| “---” | = The emission level complied with the Average limits, with at least 2dB margin limits, so no further recheck. |

Calculation example:

$$\text{Margin (dB)} = \text{RAW (dBuV)} - \text{Limit (dBuV)}$$

LINE CONDUCTED EMISSION LIMIT

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|-----------|
| | Q.P. | AVERAGE |
| 150kHz-500kHz | 66-56dBuV | 56-46dBuV |
| 500kHz-5MHz | 56dBuV | 46dBuV |
| 5MHz-30MHz | 60dBuV | 50dBuV |

Note: The lower limit shall apply at the transition frequency.

5.3 PRELIMINARY RADIATED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received AC power source from the outlet socket under the turntable. All support equipment received 110VAC/60Hz power from another socket under the turntable, if any.
- 5) The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The following test mode(s) were scanned during the preliminary test:

Mode(s):

1. **1280 × 1024 Resolution 75Hz**
2. **1024 × 768 Resolution 75Hz**
3. **800 × 600 Resolution 75Hz**

- 8) After the preliminary scan, we found the following test mode producing the highest emission level.

Model: 1.

Then, the EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for reference of final testing.

5.4 FINAL RADIATED EMISSION TEST

- 1) EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- 2) The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 3) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- 4) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

| Freq. (MHz) | Raw Data (dBuV) | Corr. Factor (dB) | Emiss. Level (dBuV/m) | Limits | Margin (dB) |
|----------------|-----------------------|-------------------------|-------------------------------|--------|----------------|
| xx.xx | 14.0 | 11.2 | 26.2 | 30 | -3.8 |

| | |
|-------------------|--|
| Freq. | = Emission frequency in MHz |
| Raw Data (dBuV) | = Uncorrected Analyzer / Receiver reading |
| Corr. Factor (dB) | = Antenna factor + Cable loss – Amplifier gain |
| Emiss. Level | = Raw reading converted to dBuV/m and CF added |
| Limit dBuV/m | = Limit stated in standard |
| Margin dB | = Reading in reference to limit |
| P | = Peak Reading |
| Q | = Quasi-peak Reading |
| A | = Average Reading |

Calculation example:

$$\text{Margin (dB)} = \text{Emiss. Level (dBuV/m)} - \text{Limits (dBuV/m)}$$

$$\text{Emission Level (dBuV/m)} = \text{Raw Data (dBuV)} + \text{Corr Factor (dB)}$$

RADIATED EMISSION LIMIT

| Frequency (MHz) | Distance (m) | Maximum Field Strength Limit (dBu V/m/ Q.P.) |
|--------------------|-----------------|---|
| 30-230 | 10 | 30 |
| 230-1000 | 10 | 37 |

Note: The lower limit shall apply at the transition frequency.

6 SUMMARY DATA

(LINE CONDUCTED TEST)

Model Number: GM678

Location: Site # 4

Tested by: Hank Huang

Test Mode: Mode 1

Test Results: Passed

Temperature: 20°C

Humidity: 65%RH

(The chart below shows the highest readings taken from the final data)

| FREQ MHz | Q.P. RAW dBuV | AVG RAW dBuV | Q.P. Limit dBuV | AVG Limit dBuV | Q.P. Margin dB | AVG Margin dB | NOTE |
|-------------|---------------------|--------------------|-----------------------|----------------------|----------------------|---------------------|------|
| 0.150 | 40.10 | --- | 66.00 | 56.00 | -25.90 | --- | L1 |
| 1.650 | 25.40 | --- | 56.00 | 46.00 | -30.60 | --- | L1 |
| 3.470 | 27.10 | --- | 56.00 | 46.00 | -28.90 | --- | L1 |
| 16.080 | 28.90 | --- | 60.00 | 50.00 | -31.10 | --- | L1 |
| 18.650 | 29.10 | --- | 60.00 | 50.00 | -30.90 | --- | L1 |
| 19.330 | 28.60 | --- | 60.00 | 50.00 | -31.40 | --- | L1 |
| 0.150 | 41.50 | --- | 66.00 | 56.00 | -24.50 | --- | L2 |
| 0.910 | 27.20 | --- | 56.00 | 46.00 | -28.80 | --- | L2 |
| 3.750 | 24.30 | --- | 56.00 | 46.00 | -31.70 | --- | L2 |
| 4.150 | 25.60 | --- | 56.00 | 46.00 | -30.40 | --- | L2 |
| 15.840 | 27.30 | --- | 60.00 | 50.00 | -32.70 | --- | L2 |
| 17.680 | 30.70 | --- | 60.00 | 50.00 | -29.30 | --- | L2 |

L1 = Line One (Hot side) / L2 = Line Two (Neutral side)

****NOTE: “---” denotes the emission level was or more than 2dB below the Average limit,
so no re-check anymore.**

SUMMARY DATA

(RADIATED EMISSION TEST)

Model Number: GM678

Location: Site # 1

Tested by: Hank Huang

Polar: Vertical--10m

Test Mode: Mode 1

Test Results: Passed

Detector Function: Quasi-Peak

Temperature: 21°C

Humidity: 65%RH

(The chart below shows the highest readings taken from the final data)

| Freq. (MHz) | Raw Data (dBuV) | Corr. Factor (dB) | Emiss. Level (dBuV/m) | Limits | Margin (dB) |
|----------------|-----------------------|-------------------------|-------------------------------|--------|----------------|
| 78.75 | 15.5 | 6.8 | 22.3 | 30.0 | -7.7 |
| 157.29 | 16.3 | 10.2 | 26.5 | 30.0 | -3.5 |
| 168.08 | 15.1 | 10.5 | 25.6 | 30.0 | -4.4 |
| 179.76 | 16.2 | 11.5 | 27.7 | 30.0 | -2.3 |
| 200.80 | 12.2 | 10.8 | 23.0 | 30.0 | -7.0 |
| 315.15 | 18.1 | 16.2 | 34.3 | 37.0 | -2.7 |
| 571.17 | 7.5 | 22.3 | 29.8 | 37.0 | -7.2 |
| 614.42 | 10.6 | 22.5 | 33.1 | 37.0 | -3.9 |

SUMMARY DATA

(RADIATED EMISSION TEST)

Model Number: GM678

Location: Site # 1

Tested by: Hank Huang

Polar: Horizontal--10m

Test Mode: Mode 1

Test Results: Passed

Detector Function: Quasi-Peak

Temperature: 21°C

Humidity: 65%RH

(The chart below shows the highest readings taken from the final data)

| Freq. (MHz) | Raw Data (dBuV) | Corr. Factor (dB) | Emiss. Level (dBuV/m) | Limits | Margin (dB) |
|----------------|-----------------------|-------------------------|-------------------------------|--------|----------------|
| 157.85 | 12.1 | 10.1 | 22.2 | 30.0 | -7.8 |
| 189.54 | 9.6 | 11.2 | 20.8 | 30.0 | -9.2 |
| 215.30 | 13.4 | 10.5 | 23.9 | 30.0 | -6.1 |
| 271.80 | 11.8 | 15.9 | 27.7 | 37.0 | -9.3 |
| 501.60 | 8.4 | 21.2 | 29.6 | 37.0 | -7.4 |
| 577.20 | 6.2 | 22.3 | 28.5 | 37.0 | -8.5 |
| 610.80 | 10.0 | 22.4 | 32.4 | 37.0 | -4.6 |
| 865.60 | 5.1 | 28.3 | 33.4 | 37.0 | -3.6 |

7 TEST FACILITY

- Location:** No. 81-1, 210 Lane, Pa-de 2nd Road, Lu-Chu Hsiang, Taoyuan, Taiwan, R. O. C.
- Description:** There are four 3/10m open area test sites and three line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2001 and CISPR 16 requirements.
- Site Filing:** A site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
- Registration also was made with Voluntary Control Council for Interference (VCCI).
- Site Accreditation:** Accredited by NEMKO (Authorization #: ELA 124) for EMC & A2LA (Certificate #: 824.01) for Emission
- Accredited by NVLAP (Certificate #: 200600-0)
- Also accredited by BSMI for the product category of Information Technology Equipment.
- Instrument Tolerance:** All measuring equipment is in accord with ANSI C63.4 and CISPR 22 requirements that meet industry regulatory agency and accreditation agency requirement.
- Ground Plane:** Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

Site # 3 & # 4 Line Conducted Test Site: At Shielding Room

8 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at C & C Laboratory, Co., Ltd. for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2-1988 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 9kHz to 1.0 GHz or above.

Equipment used during the tests:

Open Area Test Site: # 1

| Open Area Test Site # 1 | | | | | |
|-------------------------|---------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL. DUE |
| Spectrum Analyzer | HP | 8568B | 3001A05004 | 07/03/2002 | 07/02/2003 |
| S.P.A Display | HP | 85662A | 3014A18846 | 07/03/2002 | 07/02/2003 |
| Q.P Adaptor | HP | 85650A | 2811A01399 | 07/03/2002 | 07/02/2003 |
| RF Pre-selector | HP | 85685A | 2947A01064 | 07/03/2002 | 07/02/2003 |
| Spectrum Analyzer | Anritsu | MS2601A | MT09950 | N/A | N/A |
| Pre-Amplifier | HP | 8447D | 2944A08432 | N/A | N/A |
| Bilog Antenna | CHASE | CBL6112A | 2309 | 02/28/2003 | 02/27/2004 |
| Turn Table | EMCO | 2081-1.21 | N/A | N.C.R | N.C.R |
| Antenna Tower | EMCO | 2075-2 | 9707-2604 | N.C.R | N.C.R |
| Controller | EMCO | 2090 | N/A | N.C.R | N.C.R |
| RF Switch | ANRITSU | MP59B | M54367 | N.C.R | N.C.R |
| Site NSA | C&C | N/A | N/A | 08/31/2002 | 08/30/2003 |

Conducted Emission Test Site: # 4

| Conducted Emission Test Site # 4 | | | | | |
|----------------------------------|------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL. DUE |
| EMI Test Receiver | R&S | ESHS30 | 828144/003 | 08/08/2002 | 08/07/2003 |
| LISN | R&S | ENV 4200 | 830326/016 | 03/05/2003 | 03/04/2004 |
| LISN | EMCO | 3825/2 | 9003/1382 | 02/26/2003 | 02/25/2004 |

The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

SYSTEM DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS

A diagram showing a central PC unit labeled '1. PC'. It is connected to several peripherals: an 'LCD Monitor (EUT)' via a 'VGA Cable', a '2. Modem', a '3. Printer', a '4. PS/2 Keyboard', and a '5. PS/2 Mouse'. The connections are represented by lines of varying lengths and angles, indicating different types of cables or ports.



10 APPENDIX 1 PHOTOGRAPHS

(TEST SETUP OF LINE CONDUCTED EMISSION TEST)

LINE CONDUCTED EMISSION TEST

Front View



Back View





11 APPENDIX 2 PHOTOGRAPHS

(TEST SETUP OF RADIATED EMISSION TEST)

RADIATED EMISSION TEST

Front View



Back View





12 APPENDIX 3 PHOTOGRAPHS OF EUT

Front View of EUT



Back View of EUT



Left View of EUT



Right View of EUT



I/O Port of EUT

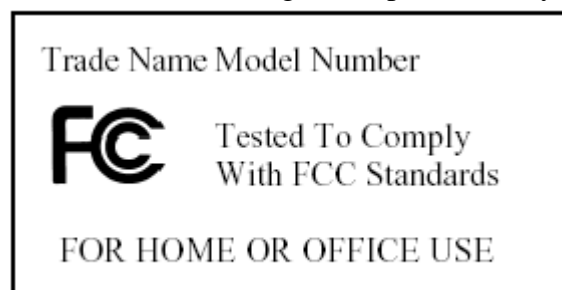




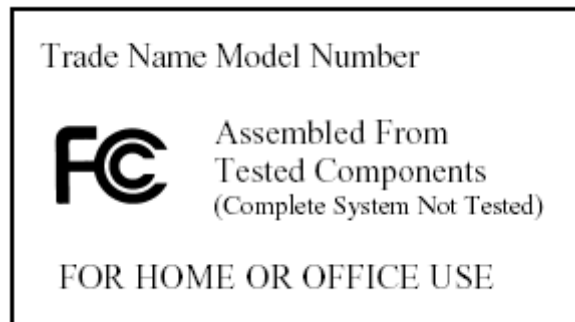
13 APPENDIX 4 LABELING REQUIREMENTS

§ 15.19 Labeling requirements.

- (a) In addition to the requirements in part 2of this chapter, a device subject to certification, or verification, or verification shall be labeled as follows:
- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90,etc., shall bear the following statement in a conspicuous location on the device:
- This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
- (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:
- This device is verified to comply with the part15of the FCC Rules for use with cable television service.
- (3) All other devices shall bear the following statement in a conspicuous location on the device:
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.
- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.
- (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it , the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.
- (b) Products subject to authorization under a Declaration of Conformity shall be labeled as follows:
- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in § 2.1074of this chapter and the following logo:
- (i) If the product is authorized based on testing of the product or system; or



- (ii) If a personal computer is authorized based on assembly using separately authorized components, in accordance with § 15.101(c) (2) or (c)(3), and the resulting product is not separately tested:



- (2) Label text information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight points.
- (3) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (4) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as, described in § 2.925(d) of this chapter. "Permanently affixed" means that the label is etched, engraved, stamped, silk screen, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.